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1636

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#9

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/875,453A

DATE: 05/17/2002 P.6
TIME: 08:47:17

Input Set : A:\54600-8135.US00-SEQLIST.txt

Output Set: N:\CRF3\05172002\I875453A.raw

4 <110> APPLICANT: Kim, Jungsuh P.
5 Starr, Douglas B.
6 Tam, Albert W.
7 Laurance, Megan E.
8 Michelotti, Emil F.
9 Velligan, Mark D.
10 Latour, Derek R.
11 Thomas, Rita L.
12 Kongpachith, Ana
13 Sheppard, Liana T.
14 Lim, Moon Young
15 Bruice, Thomas W.
18 <120> TITLE OF INVENTION: PROMOTERS FOR REGULATED GENE EXPRESSION
21 <130> FILE REFERENCE: 54600-8135.US00
23 <140> CURRENT APPLICATION NUMBER: US 09/875,453A
C--> 24 <141> CURRENT FILING DATE: 2002-05-06
26 <150> PRIOR APPLICATION NUMBER: US 60/209,549
27 <151> PRIOR FILING DATE: 2000-06-06
29 <160> NUMBER OF SEQ ID NOS: 246
31 <170> SOFTWARE: FastSEQ for Windows Version 4.0
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 1903
35 <212> TYPE: DNA
36 <213> ORGANISM: Homo sapiens
38 <400> SEQUENCE: 1
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40 gcgattgtgg gtgctcgagg agtggggggg ggcacgacc taggtgctcc ctgctggggc 120
41 aacccatcgc tcccatgcg gaatccgggg gtaattaccc cccaggacc cggaatatta 180
42 gtaatcctaa ttcccgccgg gggagggggc gcgggaggaa ttcaccctga aaggtggggg 240
43 tggggggggg cgcattctgc tgtgagcacc ctggcgagg ggagagggct ttttctatca 300
44 gttttctttg agcttttact gttaagaggg tacggtgggt tgatgacact gaactatatt 360
45 caaaaggaag taaatgaaca gttttcttaa tttggggcag gtactgtaaa aataaaaaca 420
46 aaagttaaga cagtaaaatg tcctttttatt ttttaatgca ccaaagagac agaacctgta 480
47 atttttaaaa ctgtgtatatt taatttacat ctgcttaagt ttgcgataat attggggacc 540
48 ctctcatgta accacgaaca cctatcgatt ttgctaaaaa tcagatcagt acactcgttt 600
49 gtttaattga taattgttct gaattatgcc ggctcctgcc agccccctca cgctcacgaa 660
50 ttcagtccca gggcaaattc taaaggtgaa gggacgtcta ccccccaac aaaaccaatt 720
51 aggaacttcg gtggtcttgt cccaggcaga ggggactaat atttccagca atttaatttc 780
52 ttttttaatt aaaaaaatg agtcagaatg gagatcactg tttctcagct ttccattcag 840
53 aggtgtgttt ctcccggtta aattgccggc acgggaaggg aggggggtgca gttggggacc 900
54 cccgcaagga ccgactggtc aaggtaggaa ggcagccga agagtctcca ggctagaagg 960
55 acaagatgaa ggaaatgctg gccaccatct tgggctgctg ctggaatttt cgggcattta 1020
56 ttttatttta ttttttgagc gagcgcatgc taagctgaaa tccctttaac ttttagggtt 1080

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57 acccccttgg gcatttgcaa cgacgcccct gtgcgccgga atgaaacttg cacagggggtt 1140
58 gtgtgcccgg tcctccccgt ccttgcatgc taaattagtt cttgcaattt acacgtgtta 1200
59 atgaaaatga aagaagatgc agtcgctgag attcttttggc cgtctgtccg cccgtgggtg 1260
60 ccctcgtggc gttcttggaa atgcgcccct tctgccggct tggatatggg gtgtcgccgc 1320
61 gccccagtca ccccttctcg tggctctccc aggcctgcgtg ctgtgccggc cttcctagtt 1380
62 gtcccctact gcagagccac ctccacctca cccctaaat cccgggggac ccactcgagg 1440
63 cggacggggc cccctgcacc cctcttccct ggccggggaga aaggctgcag cggggcgatt 1500
64 tgcatttcta tgaaaaccgg actacagggg caactccgcc gcagggcagg cgcggcgctt 1560
65 cagggatggc ttttgggctc tgcccctcgc tgctcccggc gtttggcgcc cgcgccccct 1620
66 ccccctgcgc ccgccccgcg ccccctcccg ctcccattct ctgccgggct ttgatctttg 1680
67 cttaacaaca gtaacgtcac acggactaca ggggagtttt gttgaagttg caaagtcctg 1740
68 gagcctccag agggctgtcg gcgcagtagc agcgagcagc agagtccgca cgctccggcg 1800
69 aggggcagaa gagcgcgagg gagcgcgggg cagcagaagc gagagccgag cgcggacca 1860
70 gccaggaccc acagccctcc ccagctgccc aggaagagcc cca 1903

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72 <210> SEQ ID NO: 2

73 <211> LENGTH: 32

74 <212> TYPE: DNA

75 <213> ORGANISM: Artificial Sequence

77 <220> FEATURE:

78 <223> OTHER INFORMATION: primer

80 <400> SEQUENCE: 2

81 gcacgcgtgc tagccagctg ggccgccctt gt 32

83 <210> SEQ ID NO: 3

84 <211> LENGTH: 32

85 <212> TYPE: DNA

86 <213> ORGANISM: Artificial Sequence

88 <220> FEATURE:

89 <223> OTHER INFORMATION: primer

91 <400> SEQUENCE: 3

92 atccatggaa gctttggggc tcttcctggg ca 32

94 <210> SEQ ID NO: 4

95 <211> LENGTH: 34

96 <212> TYPE: DNA

97 <213> ORGANISM: Artificial Sequence

99 <220> FEATURE:

100 <223> OTHER INFORMATION: primer

102 <400> SEQUENCE: 4

103 gcacgcgtgc tagctggagc ctccagaggg ctgt 34

105 <210> SEQ ID NO: 5

106 <211> LENGTH: 10

107 <212> TYPE: DNA

108 <213> ORGANISM: Homo sapiens

110 <400> SEQUENCE: 5

111 gagtttttgtt 10

113 <210> SEQ ID NO: 6

114 <211> LENGTH: 7

115 <212> TYPE: DNA

116 <213> ORGANISM: Homo sapiens

118 <400> SEQUENCE: 6

RAW SEQUENCE LISTING

DATE: 05/17/2002

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Input Set : A:\54600-8135.US00-SEQLIST.txt

Output Set: N:\CRF3\05172002\I875453A.raw

| | | |
|-----|--|------|
| 119 | gagtttt | 7 |
| 121 | <210> SEQ ID NO: 7 | |
| 122 | <211> LENGTH: 16 | |
| 123 | <212> TYPE: DNA | |
| 124 | <213> ORGANISM: Homo sapiens | |
| 126 | <400> SEQUENCE: 7 | |
| 127 | cagtaacgtc acacgg | 16 |
| 129 | <210> SEQ ID NO: 8 | |
| 130 | <211> LENGTH: 10 | |
| 131 | <212> TYPE: DNA | |
| 132 | <213> ORGANISM: Homo sapiens | |
| 134 | <400> SEQUENCE: 8 | |
| 135 | cctccagagg | 10 |
| 137 | <210> SEQ ID NO: 9 | |
| 138 | <211> LENGTH: 2395 | |
| 139 | <212> TYPE: DNA | |
| 140 | <213> ORGANISM: Homo sapiens | |
| 142 | <400> SEQUENCE: 9 | |
| 143 | gaattcactg gggagagcat tcaggaagat gacaacagga taatagggtca acagagtaat | 60 |
| 144 | agagagggtcg ctaaaaataa actctaagaa gtattcagcc aaaactatta ttgagctaat | 120 |
| 145 | aatggtggga tcaatttcag gggaatattg tgggcagaag tcagactgta ggaggctggg | 180 |
| 146 | gatcaagaag ttgaggcaag gaggttgac aacaactgtt ttttcaagtt ggtcacgtga | 240 |
| 147 | acaaatctgt gaccttcagc ctccccctccc tcgggtcttg gctgagctga ttgcagggcc | 300 |
| 148 | cctgcagctc tggcactctc aagttgtata aaactgacag tgcagaagtc cttgagccca | 360 |
| 149 | ttttggctct catgataatt ttccttcagt ggaactaagg ttacttgtct aagaaccaa | 420 |
| 150 | gcctctgact tgactgatca aagttcatca cgtgcacga agccacctac ttggcagatg | 480 |
| 151 | tagtgaaaag ctacatagat ctgggcccag gacaggatgc tggggcgtag gaggggaaga | 540 |
| 152 | aagcagggtgc taactatata gatagcatgc ctatcagagc agtttttacg tttcctat | 600 |
| 153 | gtctctcaaa acaattttat aggaatcatc aaagcaattt tatcatggtt tctagaccag | 660 |
| 154 | gtttggatgt gaggtaggga tttccacagc tgcttttagt ttgaaggaaa tctgataaga | 720 |
| 155 | tgatgcaaaa gcccttcaga aatgtgtaat cctacacact tcagtgatc aattcattgt | 780 |
| 156 | caaaacttaa ggtgttttta atattgttat tgttcatttg gtttttacc aatgtaagg | 840 |
| 157 | agttggcaat tatttgttaa actcatgtct taggctaaat aaattccaaa aaattcagga | 900 |
| 158 | tgagaattgt ttattgctta acgtgtgtca aatttcttcc atgcacatct ttattagatc | 960 |
| 159 | ttcacagcaa cctacaggat aagcaagaca ggtgcaagtg cctccttttg gtatgaggaa | 1020 |
| 160 | actgagggtct aaagagatga agtgatttgc ccaaggctca tagcaattta ttggtagagc | 1080 |
| 161 | aaagactaga attctcttaa ctgcagccta ttttccctat tctgaactgt tacatcagca | 1140 |
| 162 | tcaacaatta tctaattgat tggaacagtg tacacaggca gcttagctac gtcaagtcac | 1200 |
| 163 | gattttttact ttaacttcaa ttccagagtc ttggcctgat ttccctcaag accctactta | 1260 |
| 164 | tctttggctt tggaaaattt atttttcttg cattatcttt ccagctaaat tttattta | 1320 |
| 165 | aaccatcagc atgctttttt tgcttttatgc catgtagact tgacctgaaa acctgccagg | 1380 |
| 166 | ctttcattga gtttagtgat taaagaagta aagttctgag aagcaattag ttgatgggac | 1440 |
| 167 | accagtcata aaatcaatcc aaacttttgt tgacatgtgt ttctttctcc atataccagg | 1500 |
| 168 | ttcccgcttc gtattagtaa gattgaaatt gaaataagtc tattgctggt ggatgaattt | 1560 |
| 169 | gtcactttcc ttgaaactgg tgaacccaaa aagttagaca gtgataggaa aatactgcca | 1620 |
| 170 | ttgtctgtta agaagtctat gacatttcaa ggcaagaatg aatatatgga agaagaaact | 1680 |
| 171 | tgtttcttct ttacttacia aaaggaaagc ctggaagtga atgatatggg tataattaaa | 1740 |
| 172 | aaaaaaaaaa aaaacaaaaa acctttacgt aacgttttgc tgggagagaa gactacgaag | 1800 |
| 173 | cacattttcc aggaagtgtg ggctgcaacg attgtgcgct cttaactaat cctgagtaag | 1860 |

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Input Set : A:\54600-8135.US00-SEQLIST.txt

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174 gtggccactt tgacagtctt ctcatgctgc ctctgccacc ttctctgcca gaagatacca 1920
175 tttcaacttt aacacagcat gatcgaaaca tacaaccaa cttctccccg atctgcggcc 1980
176 actggactgc ccatcagcat gaaaattttt atgtatttac ttactgtttt tcttatcacc 2040
177 cagatgattg ggtcagcact ttttgctgtg tatcttcata gaaggctgga caaggtaaga 2100
178 tgaaccacaa gcctttatta actaaatttg gggtccttac taattcatag gttggttcta 2160
179 cccaaatgat ggatgatggg agaaaccaa tagaagaatg gtcttggtggc ataatgtttg 2220
180 ttccctagtc aatgaactct catattcttg tctctgggta ggatcttggg atctggagtc 2280
181 agactgcctg ggctcaaate ttggctctgc ccataccatc tctgttatcc tggggcaagt 2340
182 gcctcagttt ccacatctga gaaatgggga tggtagtggg gtccatttca tagat 2395
184 <210> SEQ ID NO: 10
185 <211> LENGTH: 36
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: primer
192 <400> SEQUENCE: 10
193 ttatgatacc tcgaggggag agcattcagg aagatg 36
195 <210> SEQ ID NO: 11
196 <211> LENGTH: 36
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: primer
203 <400> SEQUENCE: 11
204 tgaatcacga agcttttgga tcttctggca gagaag 36
206 <210> SEQ ID NO: 12
207 <211> LENGTH: 24
208 <212> TYPE: DNA
209 <213> ORGANISM: Homo sapiens
211 <400> SEQUENCE: 12
212 gatgaatttg tcactttcct tgaa 24
214 <210> SEQ ID NO: 13
215 <211> LENGTH: 20
216 <212> TYPE: DNA
217 <213> ORGANISM: Homo sapiens
219 <400> SEQUENCE: 13
220 gacatttcaa ggcaagaatg 20
222 <210> SEQ ID NO: 14
223 <211> LENGTH: 35
224 <212> TYPE: DNA
225 <213> ORGANISM: Homo sapiens
227 <400> SEQUENCE: 14
228 acatttcaag gcaagaatga atatattgaa gaaga 35
230 <210> SEQ ID NO: 15
231 <211> LENGTH: 37
232 <212> TYPE: DNA
233 <213> ORGANISM: Homo sapiens
235 <400> SEQUENCE: 15
236 tacgaagcac attttccagg aagtgtgggc tgcaacg 37

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RAW SEQUENCE LISTING

DATE: 05/17/2002

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Input Set : A:\54600-8135.US00-SEQLIST.txt

Output Set: N:\CRF3\05172002\I875453A.raw

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238 <210> SEQ ID NO: 16
239 <211> LENGTH: 250
240 <212> TYPE: DNA
241 <213> ORGANISM: Hepatitis B virus
243 <400> SEQUENCE: 16
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245 aggactcttg gactctcagc aatgtcaacg accgaccttg aggcatactt caaagactgt      120
246 ttgttttaaag actgggagga gttgggggag gagattaggt taaaggctctt tgtactagga      180
247 ggctgtaggc ataaattggg ctgcgcacca gcacatgca acttttttcac ctctgcctaa      240
248 tcattctcttg                                     250
250 <210> SEQ ID NO: 17
251 <211> LENGTH: 12
252 <212> TYPE: DNA
253 <213> ORGANISM: Hepatitis B virus
255 <400> SEQUENCE: 17
256 gactgtttgt tt                                     12
258 <210> SEQ ID NO: 18
259 <211> LENGTH: 12
260 <212> TYPE: DNA
261 <213> ORGANISM: Hepatitis B virus
263 <400> SEQUENCE: 18
264 aggactcttg ga                                     12
266 <210> SEQ ID NO: 19
267 <211> LENGTH: 15
268 <212> TYPE: DNA
269 <213> ORGANISM: Hepatitis B virus
271 <400> SEQUENCE: 19
272 tacttcaaag actgt                                     15
274 <210> SEQ ID NO: 20
275 <211> LENGTH: 23
276 <212> TYPE: DNA
277 <213> ORGANISM: Hepatitis B virus
279 <400> SEQUENCE: 20
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283 <211> LENGTH: 15
284 <212> TYPE: DNA
285 <213> ORGANISM: Hepatitis B virus
287 <400> SEQUENCE: 21
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290 <210> SEQ ID NO: 22
291 <211> LENGTH: 156
292 <212> TYPE: DNA
293 <213> ORGANISM: Hepatitis B virus
295 <400> SEQUENCE: 22
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297 atggaaggcg ggtatattat ataagagaga aacaacacat agcgctcat tttgtgggtc      120
298 accatattct tgggaacaag atctacagca tggggc                                     156
300 <210> SEQ ID NO: 23

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/17/2002
PATENT APPLICATION: US/09/875,453A TIME: 08:47:18

Input Set : A:\54600-8135.US00-SEQLIST.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:160; N Pos. 7

VERIFICATION SUMMARY

DATE: 05/17/2002

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Input Set : A:\54600-8135.US00-SEQLIST.txt

Output Set: N:\CRF3\05172002\I875453A.raw

L:24 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1041 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1045 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:81
L:1056 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1061 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:82
L:1835 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1839 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:160
L:1840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:160 after pos.:0